

As a below named inventor, I heret declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**GLUCOPYRANOSE DERIVATIVES AND MEDICAMENTS FOR PREVENTING AND/OR TREATING
HIV INFECTION DISEASES COMPRISING THE SAME AS AN ACTIVE INGREDIENT**

the specification of which is attached hereto unless the following box is checked:

☐ was filed on _____ as United States Application Number or PCT International Application Number _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information of which is material to the patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

P. Hei. 10-183276	Japan	16/June/1998	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	
_____	_____	_____	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	
_____	_____	_____	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	

I hereby claim the benefits under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

(Application Number)

(Filing Date)

I hereby claim the benefits under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

(Application Number)

(Filing Date)

(Status - patented, pending, abandoned)

(Application Number)

(Filing Date)

(Status - patented, pending, abandoned)

I hereby appoint John H. Mion, Reg. No. 18,879; Thomas J. Macpeak, Reg. No. 19,292; Robert J. Seas, Jr., Reg. No. 21,092; Darryl Mexic, Reg. No. 23,063; Robert V. Sloan, Reg. No. 22,775; Peter D. Olexy, Reg. No. 24,513; J. Frank Osha, Reg. No. 24,625; Waddell A. Biggart, Reg. No. 24,861; Louis Gubinsky, Reg. No. 24,835; Neil B. Siegel, Reg. No. 25,200; David J. Cushing, Reg. No. 28,703; John R. Inge, Reg. No. 26,916; Joseph J. Ruch, Jr., Reg. No. 26,577; Sheldon I. Landsman, Reg. No. 25,430; Richard C. Turner, Reg. No. 29,710; Howard L. Bernstein, Reg. No. 25,665; Alan J. Kasper, Reg. No. 25,426; Kenneth J. Burchfiel, Reg. No. 31,333; Gordon Kit, Reg. No. 30,764; Susan J. Mack, Reg. No. 30,951; Frank L. Bernstein, Reg. No. 31,484; Mark Boland, Reg. No. 32,197; William H. Mandir, Reg. No. 32,156; Scott M. Daniels, Reg. No. 32,562; Brian W. Hannon, Reg. No. 32,778; Abraham J. Rosner, Reg. No. 33,276; Bruce E. Kramer, Reg. No. 33,725; Paul F. Neils, Reg. No. 33,102; Brett S. Sylvester, Reg. No. 32,765 and Robert M. Masters, Reg. No. 35,603; my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC, 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date December 1, 2000

First Inventor Daikichi

FUKUSHIMA

First Name

Last Name

Residence Osaka,

Signature

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Fukushima

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Signature

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Citizenship Japan

Date _____ Third Inventor _____ First Name _____ Last Name _____
Residence _____ Osaka, _____ Signature _____ Hideaki _____ Tada _____
_____ Japan _____ Post Office Address c/o Minase Research Institute, ONO Pharmaceutical
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Date _____ Fourth Inventor _____ First Name _____ Last Name _____
Residence _____ Signature _____
_____ Post Office Address _____
Citizenship _____

Date _____ Fifth Inventor _____ First Name _____ Last Name _____
Residence _____ Signature _____
_____ Post Office Address _____
Citizenship _____

Date _____ Sixth Inventor _____ First Name _____ Last Name _____
Residence _____ Signature _____
_____ Post Office Address _____
Citizenship _____

Date _____ Seventh Inventor _____ First Name _____ Last Name _____
Residence _____ Signature _____
_____ Post Office Address _____
Citizenship _____

Date _____ Eighth Inventor _____ First Name _____ Last Name _____
Residence _____ Signature _____
_____ Post Office Address _____
Citizenship _____

(Supply similar information for ninth and subsequent joint inventors.)

ASSIGNMENT

Whereas, I/We, Daikichi FUKUSHIMA, Shiro SHIBAYAMA and
Hideaki TADA, all of Osaka, Japan

ofx

hereinafter called assignor(s), have invented certain improvements in

GLUCOPYRANOSE DERIVATIVES AND MEDICAMENTS FOR PREVENTING AND/OR TREATING
HIV INFECTION DISEASES COMPRISING THE SAME AS AN ACTIVE INGREDIENT
and executed an application for Letters Patent of the United States of America therefor on

December 1, 2000 ; and

Whereas, ONO Pharmaceutical Co., Ltd. of

1-5, Doshomachi 2-chome, Chuo-ku, Osaka-shi, OSAKA 541-8526 JAPAN

(assignee), desires to acquire the entire right, title and interest in the application and invention, and
to any United States patents to be obtained therefor;

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Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named
assignee, its successors and assigns, the entire right, title and interest in the application and the
invention disclosed therein for the United States of America, including the right to claim priority under
35 U.S.C. § 119, and I/we request the Commissioner of Patents to issue any Letters Patent granted
upon the invention set forth in the application to the assignee, its successors and assigns; and I/we
will execute without further consideration all papers deemed necessary by the assignee in connection
with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS
of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert here in parentheses
(Application number _____, filed _____) the filing
date and application number of said application when known.

Date: December 1, 2000

s/

Daikichi Fukushima

Date: December 1, 2000

s/

Shiro Shibayama

Date: December 1, 2000

s/

Hideaki Tada

Date:

s/

Date:

s/

Date:

s/

Date:

s/